

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Dennis G. Hepp, et al. )  
App. No. : To be assigned )  
Filed : Herewith )  
For : **APPARATUS AND METHOD FOR** )  
**DETERMINING CARDIAC** )  
**OUTPUT IN A LIVING SUBJECT** )  
Examiner : Unknown )  
Group Art Unit: Unknown )

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**27299**  
PATENT TRADEMARK OFFICE

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Enclosed is form PTO-1449 listing twenty-eight (28) references previously disclosed to or cited by the Patent and Trademark Office in the prosecution of U.S. patent application Serial No. 09/903,473, filed July 10, 2001, which is the parent of the continuation application, and is relied upon for an earlier filing date under 35 U.S.C. 120. Copies of these references are not submitted pursuant to 37 C.F.R. §1.98(d). A copy of Item No. 13 is enclosed herewith (previously cited as pending Application Serial No. 09/764,589 on Page 1 of the Specification).

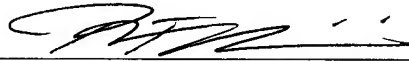
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Pursuant to 37 C.F.R. §§1.97(g) and (h), Applicant makes no representation that a search has been made or that the information cited is considered material to patentability. Additionally, inclusion on this list is not an admission that any of the cited documents are prior art in this application. Further, Applicant makes no representation regarding the completeness of this list or that better art does not exist.

Respectfully submitted,

GAZDZINSKI & ASSOCIATES

Dated: July 8, 2003

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  <b>INFORMATION DISCLOSURE STATEMENT          BY APPLICANT</b>  (USE SEVERAL SHEETS IF NECESSARY)	ATTY. DOCKET NO. CARDIO.003CP1C1	APPLICATION NO. To be assigned
	APPLICANT Dennis G. Hepp, et al.	
	FILING DATE Herewith	GROUP Unknown

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1	RE 30,101	09/25/79	Kubicek, et al.			
	2	5,178,151	01/12/93	Sackner			
	3	5,184,620	02/09/93	Cudahy, et al.			
	4	5,287,520	02/15/94	Kaiser			
	5	5,505,209	04/09/96	Reining			
	6	5,511,553	04/30/96	Segalowitz			
	7	5,590,648	01/07/97	Mitchell			
	8	5,876,351	03/02/99	Rohde			
	9	5,895,298	04/20/99	Faupel, et al.			
	10	6,016,445	01/18/00	Baura			
	11	6,141,575	10/31/00	Price			
	12	6,186,955	02/13/01	Baura			
	13	6,561,986 B2	05/13/03	Baura, et al.			

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	14	W. G. Kubicek, Ph.D., et al., "Development and Evaluation of an Impedance Cardiac Output System", Acrospace Medicine, pp. 1208-1212, December, 1966
	15	Jan Nybor, Sc.D., M.D., et al., "Electrical Impedance Plethysmography", Circulation, Volume II, pp. 811-821, December, 1950
	16	ConMed Corporation POSITRACE ECG Electrode (Exhibit "A" consisting of five pages), 6/98
	17	G. W. N. Dalzell, et al., "Initial Experience with a Microprocessor Controlled Current Based Defibrillator," University of Ulster, Jordanstown, and Regional Medical Cardiology Centre, Royal Victoria Hospital, Belfast, Ireland, pp. 502-505, February 2, 1989
	18	B. Bo Sramek, MSEE, "Hemodynamic and Pump-Performance Monitoring by Electrical Bioimpedance," Problems in Respiratory Care, Vol. 2, No. 2, pp. 274-290, April/June 1989

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				FILING DATE Herewith		GROUP Unknown	
	19	G. D. Baura, Ph.D., et al., "Intra-Sensor Spacing and Sensor Placement Variability on Impedance Cardiography (ICG) Parameters," CDIC Technical Report #TR-048, consisting of 2 pages, July 26, 2000					
	20	GE Medical Systems Information Technologies, "Non-Invasive Hemodynamic Monitoring With BioZ Impedance Cardiography," consisting of 2 pages, 2001.					
	21	Wantagh, Incorporated, "Noninvasive Continuous Hemodynamic Patient Monitoring System – Operator's Manual," Title page, plus pages 1-42 (date unknown)					
	22	Wantagh, Incorporated, "Noninvasive Continuous Hemodynamic Monitoring," Pages 1 – 4 (date unknown)					
	23	Lead-Lok, Inc., (August 8, 1998), Final Production Specifications consisting of two (2) pages					
	24	Sorba Medical Systems – product literature entitled "Transthoracic Electrical Bioimpedance R-wave Triggered Ensemble" Averaging" consisting of four (4) pages					
	25	Sorba Medical Systems – product literature regarding the CIC-1000™ – consisting of two (2) pages					
	26	Sorba Medical Systems – product literature regarding the Steorra™ impedance cardiograph – consisting of three (3) pages					
	27	Solar®8000M Patient Monitor <i>GE Medical Systems</i> web page (6 pages)					
	28	Non-Invasive Hemodynamic Monitoring with BioZ® Impedance Cardiography web page (2 pages)					

EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	